## IN THE CLAIMS:

Please cancel claims 11, 12, 13, 14 and 16. Claims 4 and 5 were previously cancelled.

Please amend claims 15 and 17 through 20. Claims 17-20 are now dependent on the amended claim 15.

Claims 1-3 and 6-10 have been allowed, while claims 15-19 have been previously objected to -- but are now re-written.

- 1. (Previously Presented) In a computer system including at least two server nodes, each of which can execute clustered server software, a method for providing data to restore clustering, said method comprising the steps of:
  - (a) comparing a current configuration data to a previous configuration data in an initialization phase which includes the steps of:
    - (a1) gathering previously stored data for a first one of said server nodes, and setting a flag to start with an installation phase if said previously stored data does not exist;
    - (a2) gathering current state data for said first server node;
    - (a3) comparing said current state data to said previously stored data, and setting said flag to start with said installation phase if discrepancies exist;
    - (a4) gathering companion node data for said first server node;
    - (a5) determining if said flag has been seen to start with an installation form, said installation form to permit a user to specify data to use in installing clustering software, and if so;
    - (a6) displaying said installation form;

- (b) comparing said current configuration data to a standard configuration data in an installation phase which includes the steps of:
  - (b1) allowing a user to change said current state data;
  - (b2) comparing said current state data with established guidelines for clustering and reporting discrepancies to said user;
  - (b3) determining if a second one of said server nodes is known by a first server node, and if so;
  - (b4) specifying said second server node as a companion node;
  - (b5) comparing configuration data of first server node with configuration data of said second server node;
  - (b6) allowing said user to make corrections to said configuration data of first server node and said configuration data of second server node if discrepancies exist;
  - (b7) saving said configuration data of first server node and said configuration data of second server node;
  - (b8) displaying a diagnostics form;

- (c) comparing a set of operations to a standard clustering functionality in a diagnostics phase;
- (d) displaying a set of results in a results phase.

- 2. (Original) The method as in Claim 1 wherein said data to restore clustering is provided when clustering services fail.
- 3. (Original) The method as in Claim 1 wherein said installation phase further includes the step of installing clustered software on said computer system.

- 4. (Cancelled).
- 5. (Cancelled).

- 6. (Previously Presented) The method as in Claim 1 wherein said diagnostics phase includes the steps of:
  - (a) allowing a user to specify a companion node;
  - (b) allowing a user to specify a diagnostics test level;
  - (c) allowing a user to specify a set of test categories;
  - (d) allowing a user to specify a method of interaction between said computer system and said user;
  - (e) sequentially running a set of tests;
  - (f) running a set of tests for environmental rules if selected;
  - (g) running a set of tests for cluster communication if selected;
  - (h) running a set of tests for shared resources if selected;
  - (i) displaying a results form.

- 7. (Previously Presented) The method as in Claim 6 wherein said step (f) of running said set of tests for environmental rules includes the steps of:
  - (f1) testing saved configuration data between a first server node and said configuration data of said first server node;
  - (f2) testing saved configuration data between said first server node and said configuration data of a second server Node.
- 8. (Previously Presented) The method as in Claim 6 wherein said step (g) of running said set of tests for cluster communication includes the steps of:
  - (g1) testing an ability for a first server node to communicate with a second server node via all network connections marked as private;
  - (g2) testing an ability for a first server node to communicate with a second server node via all network connections marked as public;
  - (g3) testing an ability for a first server node to communicate with a second server node via all network connections marked as both private and public;
  - (g4) testing an ability for a first server node to communicate with a controller node;
  - (g5) testing an ability for a first server node to execute commands on said second server node.

- 9. (Previously Presented) The method as in Claim 6 wherein said step (h) of running said set of tests for shared resources includes the steps of:
  - (h1) testing an ability for a first server node to utilize a shared storage device for arbitrating operation of said computer system;
  - (h2) testing an ability to reset and reserve a SCSI bus for said shared storage device.

- 10. (Previously Presented) The method as in Claim 1 wherein said results phase includes the steps of:
  - (d1) allowing a user to view all diagnostics;
  - (d2) allowing a user to view diagnostics producing errors;
  - (d3) allowing a user to view diagnostics producing errors or warnings;
  - (d4) allowing a user to traverse a collection of diagnostics;
  - (d5) allowing a user to save said collection of diagnostics to a log file.

- 11. (Cancelled).
- 12. (Cancelled).
- 13. (Cancelled).
- 14. (Cancelled).

- 15. (Currently Amended) A Computer Readable Media encoded with machine-readable computer program code utilizing a method for providing data to restore clustering between a first server node and a second server node, wherein, when a computer system executes the computer program code, the computer performs the steps of:

  [[The method as in Claim 11 wherein said installation phase includes the steps of:]]
  - (a) comparing a current configuration data to previous configuration data in an initialization phase;
  - (b) comparing said current configuration data to a standard configuration data in an installation phase wherein said installation phase includes the steps of:
    - (b1) [[(a)]] allowing a user to access and change
      current state data;
    - (b2) [[(b)]] comparing said current state data with established guidelines for clustering and reporting discrepancies to said user;
    - (b3) [[(c)]] determining if a second one of said server nodes is known by said first server node, and if so;
    - (b4) [[(d)]] specifying said second server node as a companion node;
    - (b5) [[(e)]] comparing configuration data of first server node with configuration data of said second server node;

- (b6) [[(f)]] allowing a user to make corrections to said configuration data of first server node and said configuration data of second server node if discrepancies exist;
- (b7) [[(g)]] saving said configuration data of said first server node and said configuration data of said second server node;
- (b8) [[(h)]] displaying a diagnostics form.
- (c) comparing a set of operations to a standard clustering functionality in a diagnostics phase wherein said diagnostics phase includes the steps of:
  - (c1) [[(a)]] allowing a user to specify a
    companion node;
  - (c2) [[(b)]] allowing a user to specify a
    diagnostics test level;
  - (c3) [[(c)]] allowing a user to specify a set of
    test categories;
  - (c4) [[(d)]] allowing a user to specify a method
    of interaction between said computer system and a
    user;
  - (c5) [[(e)]] sequentially running a set of tests;
  - (c6) [[(f)]] running a set of tests for
    environmental rules if selected;
  - (c7) [[(g)]] running a set of tests for cluster communication if selected;
  - (c8) [[(h)]] running a set of tests for shared
    resources if selected;

- (c9) [[(i)]] displaying a results form.
- (d) displaying a set of results in a results phase.

16. (Cancelled).

- 17. (Currently Amended) The method as in Claim [[16]] 15 wherein said step [[(f)]] (c6) of running said set of tests for environmental rules includes the steps of:
  - (c6a) [[(f1)]] testing a saved configuration between said first server node and said configuration data of said first server node;

    (c6b) [[(f2)]] testing a saved configuration between said first server node and said configuration data of said second server node.
- 18. (Currently Amended) The method as in Claim [[16]]  $\underline{15}$  wherein said step [[(g)]]  $\underline{(c7)}$  of running said set of tests for cluster communication includes the steps of:
  - (c7a) [[(g1)]] testing an ability for said first server node to communicate with said second server node via all network connections marked as private;
  - (c7b) [[(g2)]] testing an ability for said first server node to communicate with said second server node via all network connections marked as public;
  - (c7c) [[(g3)]] testing an ability for said first server node to communicate with said second server node via all network connections marked as both private and public;

- (c7d) [[(g4)]] testing an ability for said
  first server node to communicate with a
  controller node;
- (c7e) [[(g5)]] testing an ability for said first server node to execute commands on said second server node.
- 19. (Currently Amended) The method as in Claim [[16]] 15 wherein said step [[(h)]] (c8) of running said set of tests for shared resources includes the steps of:
  - (c8a) [[(h1)]] testing for an ability for said first server node to utilize a shared storage device for arbitrating operation of said computer system;
  - (c8b) [[(h2)]] testing for an ability to reset and reserve a SCSI bus for said shared storage device.
- 20. (Currently Amended) The method as in Claim [[11]] 15 wherein step (d) of displaying said results phase includes the steps of:
  - (d1) allowing a user to view all diagnostics;
  - (d2) allowing a user to view diagnostics producing errors;
  - (d3) allowing a user to view diagnostics producing errors or warnings;
  - (d4) allowing a user to traverse a collection of diagnostics;
  - (d5) allowing a user to save said collection of diagnostics to a log file.